AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

Claim 1. (Withdrawn) A composite article comprising a metal reinforcing element and molded

plastic coating firmly attached thereto, wherein said reinforcing element is formed to define an

open channel having a longitudinal axis and an open side parallel to said axis, and said plastic

coating includes a portion formed as a wall mechanically closing said open side of the channel.

Claim 2. (Withdrawn) The composite article according to Claim 1, wherein the form of said

open channel allows insertion of a mold core snugly fitting said reinforcing element, the insertion

being through said open side, in the absence of said plastic coating.

Claim 3. (Withdrawn) The composite article according to Claim 2, wherein said reinforcing

element has two side walls and a transverse wall connecting said side walls.

Claim 4. (Withdrawn) The composite article according to Claim 2, wherein said reinforcing

element has a profile shaped as a truncated oval.

Claim 5. (Withdrawn) The composite article according to Claim 2, wherein said reinforcing

element comprises two walls connected along a common edge.

Claim 6. (Withdrawn) The composite article according to Claim 1, wherein said metal

reinforcing element has openings for providing better adhesion with said plastic coating.

Claim 7. (Withdrawn) The composite article according to Claim 6, wherein said openings are

through-going and said plastic coating has protrusions with swollen heads at the inner side of

the channel, obtained through said openings.

Claim 8. (Withdrawn) The composite article according to Claim 1, wherein said metal

reinforcing element is made of one of the following: bent sheet metal, extruded metal profile,

rolled metal profile.

Claim 9. (Withdrawn) The composite article according to Claim 1, wherein said plastic coating

has closed tubular form embracing said metal reinforcing element.

Claim 10. (Withdrawn) The composite article according to Claim 1, wherein said plastic coating

has a form including a second channel with open profile having two free edges, said two free

edges being fixed to two respective edges of the open channel of said metal reinforcing

element.

Claim 11. (Withdrawn) The composite article according to Claim 1, wherein said metal

reinforcing element is formed to define a plurality of open channels each of them being

mechanically closed by a wall which is a portion of said plastic coating.

Claim 12. (Withdrawn) The composite article according to Claim 1, wherein said metal

reinforcing element is formed to define a plurality of open channels, some of them being

mechanically closed by a wall which is a portion of said plastic coating, so as to allow bending of

said composite article along the rest open channels.

Claim 13. (Withdrawn) The composite article according to Claim 1, wherein said plastic coating

has a portion at least partially covering said metal reinforcing element at the inner side of said

channel.

Claim 14. (Withdrawn) The composite article according to Claim 1, wherein the closing wall

formed by said plastic coating has at least one opening.

Claim 15. (Withdrawn) The composite article according to Claim 1, wherein said plastic coating

has at least one opening located so as to expose a portion of said metal reinforcing element.

Claim 16. (Withdrawn) The composite article according to Claim 1, having at one end thereof

an extension of said injection-molded plastic coating with external shape allowing tight insertion

of said extension into the channel of a similar composite article, in the direction of said channel

axis.

Claim 17. (Withdrawn) The composite article according to Claim 1, wherein said plastic coating

is at least one of the following materials:

thermoplastic, polymerizing resin, polypropylene, polyacetal, polystyrene.

Claim 18. (Withdrawn) A constructive element comprising at least two composite articles as

described in Claim 1, said articles being connected by plastic elements integrally formed from

the same injection-molded plastic as said composite articles.

Claim 19. (Withdrawn) The constructive element of Claim 18, wherein said at least two

composite articles are co-planar elongated beams.

Claim 20. (Withdrawn) The constructive element of Claim 19, wherein said elongated beams

are parallel and said plastic elements are transverse beams.

Claim 21. (Withdrawn) The constructive element of Claim 19, wherein said plastic elements

are channel-shaped beams with open profiles.

Claim 22. (Withdrawn) The constructive element of Claim 21, wherein said open profiles have

an open side oriented in one direction.

Claim 23. (Withdrawn) The constructive element of Claim 22, wherein the metal reinforcing

elements of said elongated beams are oriented with their open side in the same direction as the

open profiles of said channel-shaped beams.

Claim 24. (Currently amended) Manufacturing a composite article comprising a metal

reinforcing element and molded plastic coating firmly attached thereto, wherein the reinforcing

element is formed to define an open channel having a longitudinal axis and an open side

parallel to the axis, and the plastic coating includes a portion formed as a wall mechanically

closing the open side of the channel, where the form of the metal reinforcing element allows

insertion, via the open side of the channel, of a mold core snugly fitting which is configured to

provide mechanical stability to the reinforcing element, the manufacturing comprising:

providing the metal reinforcing element;

- providing the mold core;

- providing a mold comprising at least two parts formed to define a mold cavity

therebetween when the mold is assembled, the mold being adapted to accommodate the metal

reinforcing element fixedly in the mold cavity, allowing space for the plastic coating;

- inserting the mold core in the metal reinforcing element via the open side, so that the

mold core snugly fits provides mechanical support to the element;

- assembling the mold parts and the metal reinforcing element with the inserted core

therein so as to fix the reinforcing element in the mold cavity;

- injecting flowable and settable plastic coating into the space to form the composite

article;

- releasing the obtained article including the reinforcing element, the set plastic coating

and the mold core, by disassembling the mold; and

- removing the mold core from the article in a direction along the channel axis.

Claim 25. (Previously presented) The manufacturing of the composite article according to

Claim 24, wherein the assembling of the mold parts and the metal reinforcing element is done

by relative motion thereof transverse to the channel axis.

Claim 26. (Previously presented) The manufacturing of the composite article according to

Claim 24, wherein the mold parts have a plurality of protrusions adapted to abut the metal

reinforcing element when the mold is assembled, thereby fixing the reinforcing element in the

mold cavity.

Claim 27. (Currently amended) The manufacturing of the composite article according to Claim

26, wherein at least part of the protrusions are relatively wide and have rounded edges so as to

form in the plastic coating decorative windows visibly exposing the surface of the metal

reinforcing element.

Claim 28. (Previously presented) The manufacturing of the composite article according to

Claim 24, wherein the reinforcing element has openings and the injected plastic coating fills

them.

Claim 29. (Currently amended) The manufacturing of the composite article according to Claim

28, wherein the [[rigid]] mold core has recesses which are located opposite the openings when

the mold core is inserted in the reinforcing element, so that the injected plastic coating can form

protrusions obtained through the openings, the protrusions having swollen heads at the inner

side of the channel.

Claim 30. (Previously presented) The manufacturing of the composite article according to

Claim 24, wherein the mold core is assembled from at least two parts divided along the channel

so as to facilitate the removing of the core in a direction parallel to the channel axis.

Claim 31. (Canceled)

Claim 32. (Currently amended) The manufacturing of the composite article according to Claim

[[31]] 24, wherein the plastic coating is 2-3mm thick.